

Huckleberry Variant Silt Loam 82-ID-0563 (82ID-009-9)

Classification: medial/loamy-skeletal, mixed, frigid Entic Dystrandepts.

General Site Characteristics

Location: Benewah County, Idaho; 925 feet east and 500 feet south of northwest corner of section 14, T. 46N., R. 1W.

Forest:

Area: St. Joe SSA

Described By/Date: Soil Conservation Service personnel on September 2, 1982

Parent Rock/Material: ash over metasediments

Habitat Type: grand fir, Douglass fir, western larch, maple, serviceberry, huckleberry, thimbleberry, spirea, rose, fairy bells, goldthread, clintonia, pachistima, and pine grass.

Topography: steep

Landform: mountain slope

Weathering:

Formation Name:

Slope: 52 percent

Aspect: northwest 312 deg.

Elevation: 2620 feet

Soil Depth:

Eff. Rooting Depth:

Litter Type:

Surface Rock:

Climate:

Precipitation:

Erosion:

Infiltration:

Permeability: moderate

Storage:

Drainage: well drained

Air Temp:

Soil Temp at 20 inches:

Salt/Alkal:

Remarks:

Pedon Description

01 3-1 cm. Slightly decomposed needles, leaves, and twigs.

02 1-0 cm. Well decomposed organic matter with 1/4 inch St. Helen's ash

A 0-3 cm. Grayish brown (10YR 5/2) silt loam, very dark grayish brown (10YR 3/2) moist; weak very fine and fine granular structure; loose, very friable, nonsticky and slightly plastic; neutral pH 7.8; many very fine and fine, common medium and coarse roots; many very fine and fine, few medium tubular pores; this horizon too thin to sample; clear wavy boundary.

Bo1 3-28 cm. Yellowish brown (10YR 5/6) silt loam, dark yellowish brown (10YR 3/6) moist; weak fine and medium subangular blocky structure; loose, very friable, nonsticky and slightly plastic; slightly acid pH 6.2; 15 percent gravels by weight; many very fine and fine, common medium and coarse roots; many very fine, common fine tubular pores; gradual wavy boundary.

Bo2 20-38 cm. Brownish yellow (10YR 6/6) silt loam, dark yellowish brown (10YR 4/6) moist; weak medium and coarse subangular blocky structure; loose, very friable, nonsticky and slightly plastic; slightly acid pH 6.3; many very fine and fine, common medium and coarse roots; many very fine, common fine tubular pores; 18 percent gravels by weight; abrupt wavy boundary.

2Bw1 38-61 cm. Light yellowish brown (10YR 6/4) very gravelly loam, dark yellowish brown (10YR 4/4) moist; weak medium and coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; strongly acid pH 5.4; common very fine and fine, few medium and coarse roots; many very fine, common fine, few medium tubular pores; 59 percent gravels by weight; by weight; few thin clay films on pores; clear wavy boundary.

2Bt2 61-107 cm. Very pale brown (10YR 7/4) very gravelly fine sandy loam, yellowish brown (10YR 5/4) moist; weak medium and coarse subangular blocky structure; slightly hard, friable, nonsticky and slightly plastic; strongly acid pH 5.1; common very fine and fine, few medium and coarse roots; many very fine, common fine tubular pores; few thin clay films on pores; 55 percent gravels by weight; clear wavy boundary.

2C 107-158 cm. Very pale brown (10YR 8/4) very gravelly fine sandy loam, light yellowish brown (10YR 6/4) moist; massive structure; slightly hard, friable, nonsticky and slightly plastic; strongly acid pH 5.1; few very fine, fine and medium roots; common very fine and fine, few medium tubular pores; 58 percent gravels by weight; no clay films.

Pedon: Huckleberry Variant Silt Loam 82-ID-0563 (821D-009-9)

Date: June 1984

Sample No.	Horizon	Depth cm	pH paste	EC ₁₀ ³ mmhos/cm	% Water at Saturation	Available P ppm	Sesquioxides				Spodic
							Di-Citrate Fe	Extract Al	Pyrophosphate Fe	Extract Al	
							%				
	01	4- 1	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02	1- 0	NS	NS	NS	NS	NS	NS	NS	NS	NS
	A1	0- 3	NS	NS	NS	NS	NS	NS	NS	NS	NS
1	B ₀₁	3- 20	6.2	0.12	86	4.6	1.38	0.52	0.05	0.26	no
2	B ₀₂	20- 38	6.3	0.07	83	5.0	1.09	0.32	0.02	0.18	no
3	2B ₀₁	38- 61	5.4	0.15	38	2.0	0.95	0.10	0.03	0.05	no
4	2B ₀₂	61-107	5.1	0.09	30	1.0	0.88	0.08	0.03	0.05	no
5	2C	107-158	5.1	0.14	26	0.9	0.49	0.05	0.02	0.05	no

Sample No.	Exchangeable Ions				Ext. Acidity H	CEC	Base Saturation	OM	OC	N	C:N	Soil Fraction	NaF pH
	Ca	Mg	Na	K									
	meq/100 gms						%		%		ratio		
	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1	5.0	0.5	0.1	0.6	17.8	18.4	26	3.33	1.94	0.114	17	0.85	10.8
2	3.4	0.5	0.2	0.5	17.6	16.8	21	2.55	1.48	0.078	19	0.82	10.7
3	1.9	0.3	0.1	0.2	4.7	5.7	35	0.50	0.29	0.019	15	0.41	8.4
4	1.3	0.3	0.1	0.1	3.7	4.4	33	0.27	0.16	0.012	13	0.45	7.9
5	1.2	0.3	0.1	0.1	2.4	2.9	42	0.19	0.11	0.009	12	0.42	8.0

Remarks: CEC's were leached with 10% acidified NaCl.
CEC's and nitrogens were run by steam distillation.
Extractable cations were run on the Jarrel Ash atomic absorption.
NS - no sample

Analysis by: Debbie Eisinger

Pedon: Huckleberry Variant Silt Loam B2-ID-0563 (B2ID-009-9)

Date: May 1984

Depth	Particle Size Distribution (mm)								Gravel & Stone		Textural Classes
	VCS	CS	MS	FS	VFS	TS	TSi	TC	>2 mm		
	2-1.0	1-0.5	0.5-0.25	0.25-0.1	0.1-0.05	2-0.05	0.05-0.002	<0.002	wt.	vol.	
cm	%								%		
1- 0	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS
0- 3	NS	NS	NS	NS	NS	NS	NS	NS	NS		NS
3- 20	1.42	1.87	1.76	4.94	9.25	19.23	72.52	8.25	15		Silt loam
20- 38	1.15	1.87	1.74	5.42	11.64	21.82	71.59	6.59	18		Silt loam
38- 61	6.64	7.04	6.13	15.61	12.45	47.88	44.81	7.32	59		Very gravelly loam
61-107	6.83	7.20	7.70	18.85	14.65	55.23	40.36	4.41	55		Very gravelly fine sandy loam
107-158	4.69	5.27	7.01	22.45	17.28	56.70	39.78	3.52	58		Very gravelly fine sandy loam

Depth	Silt Size Distribution (mm)				Water Content		Liquid	Plastic	Plastic
	CoSi	Msi	Fsi	Bulk Density	1/3	15	Limit	Limit	Index
	0.05-0.02	0.02-0.005	0.005-0.002	Clod Core	Bar	Bar			
cm	%				g/cc		%		

1- 0	NS	NS
0- 3	NS	NS
3- 20	49.8	24.8
20- 38	59.6	25.1
38- 61	20.4	10.0
61-107	17.1	7.9
107-158	16.7	7.7

Remarks: Samples were run by the centrifuge method, 5% sodium hexametaphosphate added, sonified, and carbonates were not removed.
NS - no sample

Analysis by: Anita L. Falen